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|--------------------|
| Selected databases |
| Query parameters |
| Query definition |
| Refine query |
| Query results |
| Basket |
| Saved queries |
| Statistics |
| Help |
| Proposals |
| Exit |

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Abstract

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СПОСОБ ПОЛУЧЕНИЯ
ВЫСОКОЧИСТЫХ АМОРФНЫХ
ДИОКСИДА КРЕМНИЯ И УГЛЕРОДА
ИЗ РИСОВОЙ ШЕЛУХИRU 2061656 C1, 10.06.1996. RU
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A1, 23.12.1991. GB 1532398 A,
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| |
|------------------|
| DOCUMENT |
| to the beginning |
| to the end |
| print |
| TERMS |
| previous |
| next |

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Invention relates to the production of the amorphous dioxide of silicon. The essence of invention consists in the fact that the rice husk is subjected to acidic etching, to washing by water, to drying, to precombustion in the closed reactor with the sucking of smoke and the catching of amorphous carbon, to grinding and to oxidizing combustion consecutively/serially in the flow of air and oxygen, moreover they conduct precombustion simultaneously with the grinding and the mixing, the sucking of smoke they conduct through the cooled labyrinth filter and the water and/or zeolite, or another adsorbent, oxidizing combustion they conduct first in the air flow before the disappearance of the visible process of combustion, and then in the current of oxygen during 20 - 60 min during a constant mixing. On the invention are obtained amorphous dioxide of silicon with cleanliness 99 - 99,99% and soot with cleanliness 98%, in this case the ecological cleanliness of process and the profitableness of the use of a rice husk rise. 3 z.p. of formula, 1 tables.